

AN INVENTORY OF  
*Basic Water Resources Data*  
ISLAND OF HAWAII

Report R34



STATE OF HAWAII  
*Department of Land and Natural Resources*  
Division of Water and Land Development

HONOLULU, HAWAII  
*February 1970*

## **DISCLAIMER**

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*Basic Water Resources*  
*Data: ISLAND OF HAWAII*



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Report R34

as 150-164. A variety of incon-  
ve been collated and standard-  
practicable in order to present  
of this water source. Original  
consulted for a more detailed  
cular source.

nels have been driven to devel-  
and water supplies in areas  
ere there are perching mem-  
The windward valleys of North  
utheast slopes of Mauna Loa in  
e tunnel development. Tunnels  
developed, but less extensively,  
Paauilo, Ookala, and Papaihonu  
coast and in the mauka areas

pages 155-158, lists 109 tun-  
d of Hawaii. Most of the tunnels  
were developed when cane was transported by  
for potable water supplies. The  
een abandoned and/or integrated  
ater systems which do not record  
separately.

nel Discharge Records, pages  
n published to indicate perched  
the island. Most of the rec-  
e from plantation sources, and  
published elsewhere. Total  
al discharge data are given.

ring Index, pages 174-179, lists  
spring water on the island of

most prevalent on the windward  
where rainfall is abundant and  
n perching members and rela-  
s rocks to prevent or retard  
se, these perched springs range  
s of a few gallons daily to high-  
discharging close to a half mil-  
l. The larger springs issue in  
ard valleys of Kohala Mountain  
rn slope of Mauna Loa near its  
ma Kea. In central Kau, where  
yield moderate supplies of  
nnels have developed several

a yield large quantities of water  
of the larger ones are those at  
ary in Hilo, which discharges  
a gallons daily and at Punahou in  
ch discharges about 25 million

few long-term spring records,  
sources are usually sealed with  
ittle attention paid to measuring  
cted Spring Flow Records, page  
discharge from springs used for  
supplies. Monthly and annual

#### WATER SUPPLY

#### Drilled Testhole Index

Test No.	Testhole	Owner	Test Date	Status	Latitude Longitude	Dist. M.	Year Drilled	Depth Feet	Diam. In.	Depth Water Level Feet	Charted Distance (Feet)	Water Temp. (°F)	Date Lastest	Remarks
1	Hartistown		02	Puna	19 35 05 155 05 40	1175		150					Well 9	No perched water
2	Mountain View		"	"	19 32 30 155 07 32	1010		50					"	"
3	"		"	"	19 32 05 155 07 50	1025		160					"	"
4	"		"	"	19 33 50 155 09 30	1905		117					"	"
5	"		"	"	19 35 15 155 09 40	1940		155					"	"
6	"		"	"	19 34 10 155 04 35	1445		160					"	"
7	"		"	"	19 33 00 155 04 40	1330		104					"	"
8	"		"	"	19 32 04 155 04 20	1565		150					"	"
9	"		"	"	19 33 02 155 07 20	1685		139					"	"
10	Hartistown		"	"	19 35 04 155 04 20	815		150					"	"
11	South Point Airport	US Army	03	Kea	19 55 26 155 49 33	51	1941	63.5	6	0	540- 655		08-58	Unused
16	Hilo	Hilo Electric Co., Ltd. Well 1	02	S Hilo	19 42 42 155 03 54	42	1940	60	6	6	31	60.5	Owner	Abandoned
17	"	Hilo Electric Co., Ltd. Well 1	"	"	19 42 42 155 03 54	42	1940	60	6	Above sea level	31	60.5	"	"
18	"	Hilo Electric Co., Ltd. Well 3	"	"	"	42	1940	60	6	"	31	60.5	"	"
19	Waialea Gulch, Waimea	Hawaii State DONALD Hole A	05	S Kohala	20 03 00 155 41 53	2613	1964	924	5-3	Dry			DONALD	
20	Pohakuloa, Honolulu	Hawaii State DONALD	"	Honolulu	19 45 05 155 32 15	4375	1965	1001	10-3	"			"	
22	Kohakohau, Waimea	Hawaii State DONALD S H 1	"	S Kohala	20 03 30 155 40 40	2910	1964	100	3				"	
23	"	Hawaii State DONALD S H 2	"	"	20 03 29 155 40 53	3050	1964	100	3				"	
24	"	Hawaii State DONALD S H 3	"	"	20 03 20 155 40 57	3770	1964	100	3				"	
25	"	Hawaii State DONALD S H 4	"	"	20 03 20 155 41 01	3790	1964	100	3	Annealed			"	
26	"	Hawaii State DONALD S H 5	"	"	20 03 27 155 41 04	3050	1964	"	3				"	
	Kahoa Ranch	Kahoa Ranch	"	S Kohala	20 04 20 155 51 29	60	1963	90	2				Owner	Unused
	"	"	01	"	20 07 13 155 45 03	3950	1962	151	14				"	"
01	Waialea Gulch	Kohala Sugar Co.	"	"	20 13 45 155 46 03	1700	1964	267	2	6.19- 7.39	50-54		"	"
02	Aamohou Gulch	"	"	"	20 13 10 155 45 31	171	1964	255	2	6.04- 6.03	21-27		"	"
03	Waialea Gulch	"	"	"	20 13 10 155 45 00	161	1964	264	2	20.9- 137.9	25-29		"	"
04	Union Hill	"	"	"	20 14 22 155 40 23	400	1966	420	6				"	No water

Drilled Testhole Index

Upolu Pt.

HAWI

Kohala  
Mtns.

HONOKAA

KAWAIHAE

WAIMEA

LAUPAHOEHOE

Mauna Kea

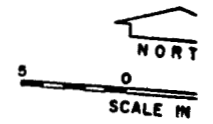
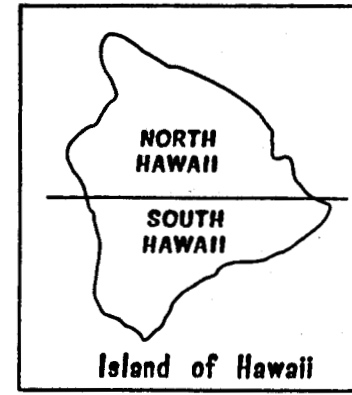
Hualalai

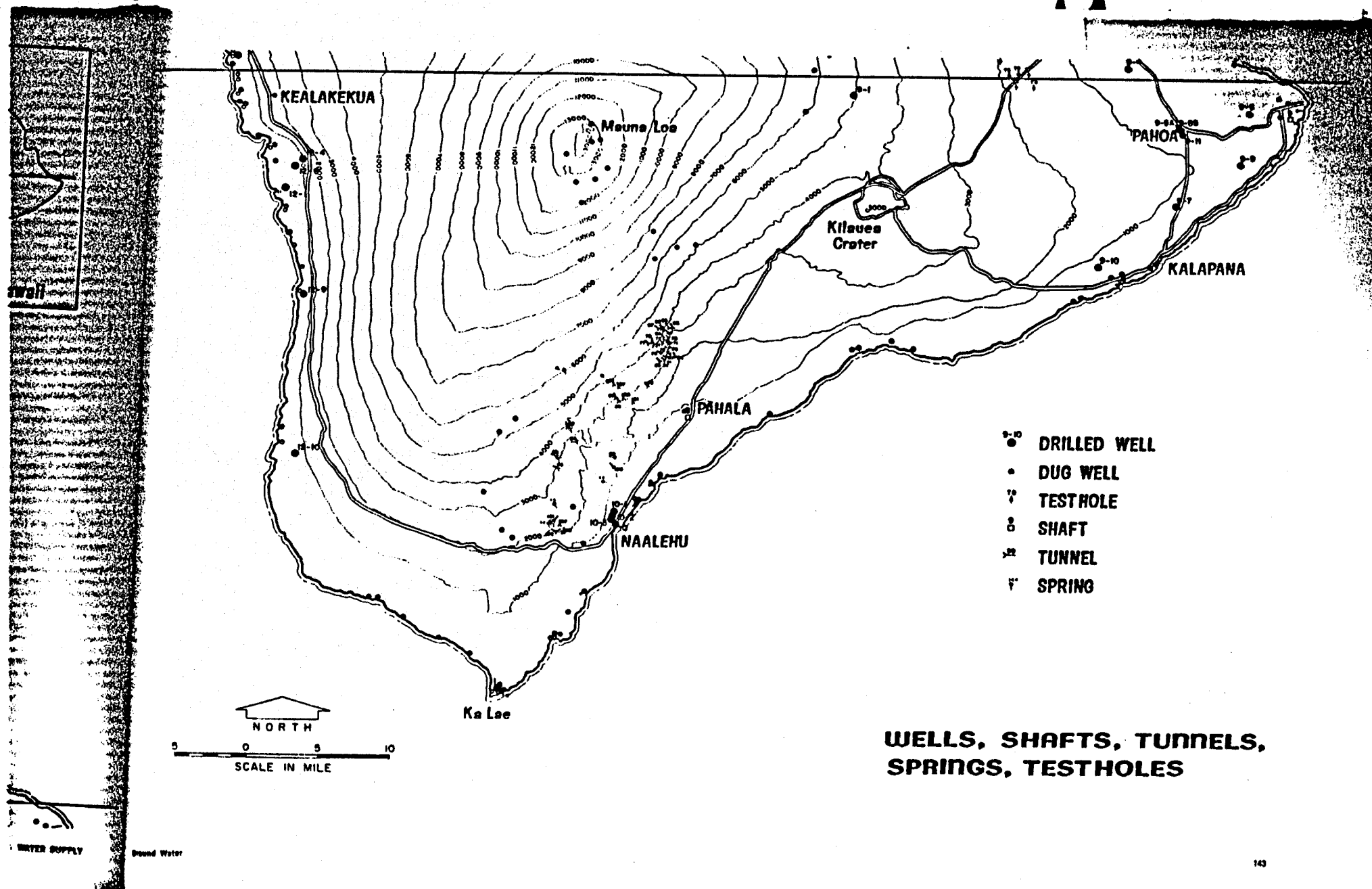
KAILUA

HILO

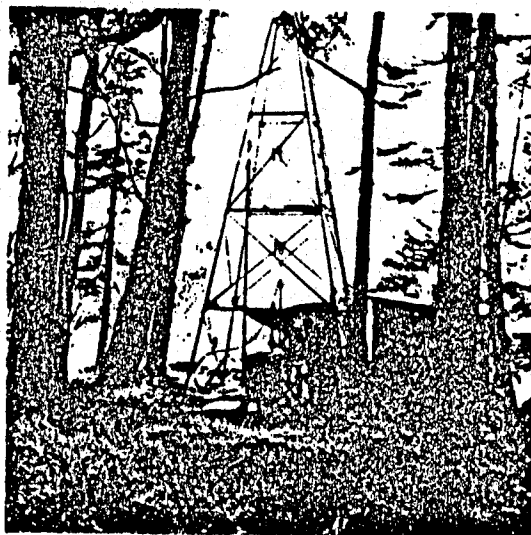
KEAAU

WATER SUPPLY





WELL No.	Well Name	Owner	Hyd. Area	Strat.	Latitude	Long.	Year Drilled	Depth (ft.)	Stem (in.)	Static Water Level (ft.)	Observed Confined (ft.)	Water Temp. (°F)	Site Location	Remarks
55	Osman Gulch	Kohala Sugar Co	81 W Kohala		20 14 25 155 28 19		1966	492	2	5.02- 4.25	25-31		Owner	Unused
56	Upolu	"	"	"	20 15 10 155 52 07		1962	560	2	4.55- 3.82	312-1950		"	"
57	Alaialoa Gulch	"	"	"	20 15 05 155 49 37		1965	450	2	2.40- 5.16	21-25		"	"
Nonokone 51		Kohala Ditch Co	"	"	20 08 15 155 43 44		1960	150	3				"	"
Nonokone 52		"	"	"	20 08 25 155 43 50		1962	90	3				"	"
Nonokone 53		"	"	"	20 08 23 155 43 50		1950	300	3				"	"
Nonokone 54		"	"	"	20 07 40 155 43 52		1964	150	3				"	"



Drilling for high-level water in Kohala Mountains near forest reserve.

## Drilled Well Index

WELL No.	Well	Owner	Hyd. Area	Stratum	Latitude Longitude	Elem. (ft.)	Year Drilled	Depth (ft.)	Stem (in.)	Static Water Level (ft.)	Observed Confined (ft.)	Water Temp. (°F)	Use	Site Location	Remarks
1	Hawi	Kohala Sugar Co	81 W Kohala		20 14 34 155 49 30	500	1950	200		Dry			Domestic		UGOH
2	Union Mill	"	"	"	20 14 30 155 40 35	400	1940	425	4				Abandoned	"	Ex industrial
2-1	Malaula	"	"	"	20 12 22 155 47 04	3420	1940	505	15	7.0	26		Domestic	"	
3	Waimea	US Government	8 W Kohala		20 02 05 155 39 42	2055	1944	440	0	Dry			Unused	"	Abandoned 1950
4	Panauilo	Hanalei Mill Co	Hanalei		20 02 55 155 22 52	175	1954		12				Abandoned	"	Potable; ex livestock
5	Panauilo Mill	"	"	"	20 02 17 155 21 41	215.6	1954	217.1	12	1.7	174		"	"	Ex domestic industrial
6	Kohala	"	"	"	20 02 43 155 20 27	244.7		244.7	12	2.2	213		"	"	"
7	Hilo Airport	County Hawaii HWS	82 S Hilo		19 42 00 155 02 47	59	1944	76	16	4	100		Domestic	"	Ex UN Navy
7-1	Papaehaione	Papaehaione Sugar Co	"	"	19 50 34 155 05 45	304	1946	320	13				Abandoned	"	Ex domestic; abandoned 1963
7-2	Waialeale	Hilo Electric Co, Ltd	"	"	19 42 42 155 03 54	46.06	1961	201	10	7	25	60	Domestic		DONALD
8	Hilo Airport	County Hawaii HWS	"	"	19 42 52 155 02 55	71	1944	96	16	5	100		"		UGOH
8-1	King's Landing	Hawaiian Paradise Corp	"	"	19 42 35 155 00 04	30.10	1961	50	10	1.37	600		Unused	"	
8-2	Hilo	Hilo Electric Co, Ltd	"	"	19 42 34 155 04 10	9	1961	201	16	7	31	60.9	Industrial		Owner
8-3	Panauilo	County Hawaii HWS	"	"	19 40 30 155 03 54	206.1	1963	306.3	22	13.12	0	60	Domestic		DONALD
9-A	Olaa Mill	"	Puna		19 30 10 155 02 05	220	1921	450	12	17	9	64	"		UGOH
9-B	"	"	"	"	"	220	1921	450	12	17	9	64	"	"	"
9-1	Nahani Prison	State Hawaii	8 W Hilo		19 31 34 155 17 54	5000	1947	00	8				Abandoned		Abandoned 3/7/66
9-2	Kaau Orchard	Boyle, Horn, Ho- ndamie Nut Co	Puna		19 30 37 155 00 43	92	1949	137	8	0.5	60	65	Domestic		DONALD
9-3	Kaau	W B Shipman Ltd	"	"	19 30 45 154 59 20	40	1950	60	10	7	117		Abandoned	Owner	Ex domestic
9-4	Kaau (Orchid Land Estate)	County Hawaii HWS	"	"	19 32 25 155 00 14	426.91	1960	475	12	19	6	72		DONALD	Test Well 01
9-5A	Pahoa Well 1-A	"	"	"	19 20 32 154 57 00	704.7	1960	754.7	12	17.0	2	72	"		Test Well 02
9-5B	Pahoa Well 1-B	"	"	"	"								"		
9-6	Kapeho	"	"	"	19 20 30 154 52 22	206.75	1960	227.15	12	3.15	230	93	"		Test Well 03
9-7	Kaunohane	"	"	"	19 20 53 154 57 20	751.75	1961	801.9	12	2.90	82	74	"		Test Well 04
9-8	Waipahoehoe	"	"	"	19 25 35 155 01 17	310.60	1961	361.40	12	16.10	0	71	"		Test Well 05



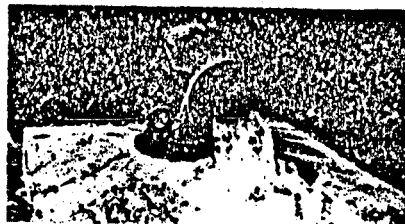
Well No.	Well	Owner	Well No.	Status	Latitude	Long.	Year Drilled	Depth (ft.)	Stem (in.)	Static Water Level (ft.)	Observed Current (ft.)	Water Temp. (°F)	Use	Site Location	Remarks
9-9	Palama-1	Howell State DONALD	03	Pump	19 27 30 154 53 00	274	1962	316	13	.56 6200	129	Unused	DONALD		
9-10	Palama	"	"	"	19 21 14 155 02 13	230	1963	250	12	3.29 295	78.5	"	"		
9-11	Pahoa Well 1	Howell State DONALD	02	"	19 29 25 154 56 47	402	1964	446	8	10.59 10	71	"	"		
9-12	Keane Orchard	Royal Keane Hamanania Nat Co	"	"	19 29 23 155 00 45	90.70	1964	147	12	7.9 192	65	Domestic	"		
10	Howeys Hill	Hutchinson Sugar Co	03	Raw	19 05 30 154 33 00	22	1966	34	3"	25 1070	65	Industrial	USGS		
10-1	Howeys	"	"	"	19 06 17 154 33 01	05	1965	130	14	27 520	65	"	Owner	Well 2	
10-2	"	"	"	"	19 06 10 155 33 07	103.25	1965	140	16	27 520	65	"	"	Well 1	
10-3	"	"	"	"	19 06 03 155 33 04	09	1964	125	16	27 520	65	"	"	Well 3	
11	South Point Airport	US Army	"	"	19 55 26 155 40 33	51	1941	63.5	6	0 560-655		Domestic	USGS	Unused	
12	Kailua	USGS & Army	04	H Rona	19 20 00 155 30 05	595	1944	615	6	2 520	70	"	"	"	
12-1	Hundee	Bishop Estate	"	H Rona	19 25 47 155 34 22	175	1956	193	10	176.67 1190		Unused	DONALD		
12-2	Kahaloa	"	"	H Rona	19 38 49 155 17 52	175	1956	193	6	169.68 1020		"	"	Known as Hanalei	
12-3	Kailua	Howell State DONALD	"	"	19 40 02 155 30 07	000	1950	053	10	1.72 3475	70.5	"	"		
12-4	Kail	County Howells	"	H Rona	19 27 32 155 33 11	764	1950	700	12	2.17 82-200	67-72.5	Domestic	"		
12-5	Kahaloa	"	"	H Rona	19 25 10 155 35 00	033	1950	070	12	4.34 6.6	68.5-73	"	"		
12-6	"	"	"	"	19 25 05 155 35 09	039	1950	001	12	3.95 13-10	69-72	"	"		
12-7	Kaupulehu	Hanalei Development Corp	05	"	19 46 02 155 30 42	1000	1960	530	6	370		"	"	Serves hotel	
12-8	Kail (Well B)	County Howells	04	S Rona	19 27 34 155 33 40	737	1963	774	10	2.3 94	66	"	"		
12-9	Ngahon Estate	Ngahon Estate Ltd	"	"	19 19 22 155 53 12	204	1965	220	10	1500		Stock			
12-10	Chae	Howell State DONALD	"	"	19 04 54 154 53 29	640								Not drilled	
13	Hahukona	Howell & Co	05	H Kahala	20 11 17 154 54 10	24	1963	000	5	0.45 Salty		Abandoned 1948	USGS	Ex industrial	
14	Kawaihae Well 1	Howell State DONALD	"	H Kahala	20 01 54 154 48 05	500	1961	020	14	3.1 302	61	Domestic	DONALD		
15	Kawaihae Well 2	"	"	"	20 10 00 155 48 13	107.14	"	429.5	14	5.12 504	70	"	"		
16	Kawaihae	"	"	"	20 01 47 155 47 13	007.4	1963	1465	10	4.20 244	47	Unused	"		
17	"	Bucke-feller & Ngahon Estate Hotel	"	"	20 00 10 155 49 10	100	1963	710	10	2 164	77	Irrigation	"		

\*9 drilled holes, 3" diameter, 3 holes open, in 15' sq. 20' deep pit extending just below sea level. Holes partly backfilled, reducing yield, which was about 2000 gallons a minute.

Well No.	Well	Owner	Well No.	Status	Latitude	Long.	Year Drilled	Depth (ft.)	Stem (in.)	Static Water Level (ft.)	Observed Current (ft.)	Water Temp. (°F)	Use	Site Location	Remarks
21	Pohakuloa	Howell State DONALD	05	Remains	19 05 10 155 22 49	6375	1962	144	14	Dry			Abandoned	DONALD	Abandoned 3/62
	Kanaloa	Wilo Electric Co, Ltd	02	H Wilo	19 42 20 155 03 32	95	1965	300	20	6 35	60.5	Industrial	Owner	3 wells	
	Union Hill #1	Kahala Sugar Co	01	H Kahala	20 14 25 155 40 22	311	1964	411	16	0.17 40-73		Irrigation		Pump in op 1966	
	Kanaloa	Bishop Estate	04	H Rona	19 33 37 155 37 24	303	1966	410	10	4.5 1000		Golf course irrigation			
	Well #1	Howell State DONALD	05	H Kahala	20 00 09 155 49 03	300					637	Irrigation		Belt Collina	
	Well #3	"	05	"	20 00 34 155 49 30						2220	Air conditioning	"	In hotel basement	

### Selected Well Pumpage Records

FEDERAL BUREAU OF INVESTIGATION												
UNITED STATES DEPARTMENT OF JUSTICE												
WASHINGTON, D. C. 20535												
Form No. 1 - (Rev. 1-25-60)												
1. Name of Subject												
JAMES EARL RAY												
2. Date of Report												
11-11-68												
3. Title of Report												
MURDER OF MARTIN LUTHER KING, JR.												
4. Name of Agent in Charge												
W. A. RORER												
5. Name of Special Agent in Charge												
J. E. CONNELLEY												
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85. Name of Agent												



Well No. 12-S—KARALUU A

[illegible]

Well No. 8-3--PANAEWA (pump efficiency test with booster and deepwell operating).

### **Selected Well Pumping Test Records**

[illegible]

<b>(Use No. 94 - REPAIR ORDERS AND SERVICE)</b>	
<b>CUSTOMER INFORMATION</b>	
Customer:	Grove View Drilling Co.
Drilling equipment:	Waltham Shop 825-M parameters eq.
Drilling date:	June 16-August 5, 1970.
Ground conditions above and:	60-65 ft.
Total depth of well:	175-20 ft.
Diam. of hole:	71-20 in.
Casing:	Incor. Shakerator, 5 ft.

[illegible]

<b>CONCRETE, READY-MIX</b>	
Contractor	Grant View Drilling Co.
Drilling equipment	Swenson Indus. Drill Worker Corp. 20 St. Stephen St.
Drilling time	September 16, 1980-November 23, 1980
Ground elevation	200.70 ft.
Total depth of well	107.75 ft.
Dia. of hole	2-5-6 in.
Driveway location of well	-10.00 ft.
<b>PUMPING TEST DATA</b>	
Date of pumping test	January 27-28, 1981
Duration of pumping test	10 hrs.

[illegible]

Connector: Quick Turn Binding Co., Ltd.  
 Binding apparatus: Quick-Turn 10-10 pressman rig.  
 Binding date: April 15, 1955 (unpublished).  
 Ground diameter: 900  $\mu$ , 5000 mils.  
 Total depth of wells: 100  $\mu$ .  
 No. of holes: 100.  
 Outer diameter: 2-5/8 in., length, 100 ft.  
 Spacing of 10 is provided.

PIPER TUB 7000 2474

Date of pumping hole:	September 6-7, 1955
Water source used (water type):	0-30 to 0.25 in.
Wellhead:	0.07 ft. at 100 gpm, 0.50 ft. at 300 gpm.

